



PATENT  
ATTORNEY DOCKET NO. 053848-5017

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: Naota INABA et al.

Application No.: 10/680,174

Confirmation No.: 5803

Filed: October 8, 2003

Group Art Unit: 3662

Allowed: January 28, 2005

Examiner: B. Andrea

For: RANGING APPARTUS, RANGING  
METHOD AND OPTO-ELECTRONIC  
CONVERSION CIRCUIT

Commissioner for Patents  
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Respectfully submitted,

**MORGAN, LEWIS & BOCKIUS LLP**

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By: Robert J. Goodell  
Reg. No. 41,040

Dated: March 15, 2005

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In re application of:

Naoto INABA, *et al.*

Confirmation No.: 5803

Application No. 10/680,174

Group Art Unit: 3662

Filed: October 8, 2003

Examiner: B. Andrea

Allowed: August 12, 2004

For: RANGING APPARATUS, RANGING METHOD AND  
OPTO-ELECTRONIC CONVERSION CIRCUIT

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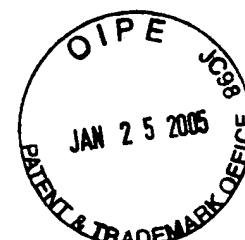
1. Information Disclosure Statement Under 37 C.F.R. § 1.97(b).
4. PTO Form 1449, European Patent Office International Search Report, and 5 cited references.

Date: January 25, 2005

Attorney Docket No.: 053848-5017

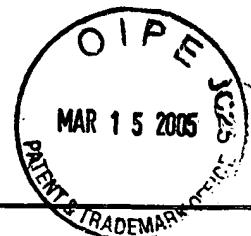
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<b>INFORMATION DISCLOSURE CITATION</b>  (Use several sheets if necessary)		Attorney Docket No. 053848-5017	Application No.: 10/680,174
		Applicants: Naoto INABA, et al.	
PTO Form 1449		Filing Date: October 8, 2003	Group Art Unit: 3662
<b>U.S. PATENT DOCUMENTS</b>			

*Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
	6,222,660	04/24/2001	Traa			
	5,966,678	10/12/1999	Lam			
	5,319,972	06/14/1994	Oblak, et al.			
	4,899,159	02/06/1990	Marchant			
	4,292,514	09/28/1981	Ohtomo			
	3,728,725	04/17/1973	Bauer			
	3,500,396	03/10/1970	Schmidt, et al.			
	3,386,091	05/23/1968	Muchlinski, et al.			
	3,364,482	01/16/1968	Sones			

<b>FOREIGN PATENT DOCUMENTS</b>						
	Document Number	Date	Country	Class	Sub Class	<u>Translation</u> YES NO
	GB 2 308 763	07/02/1997	United Kingdom			
	WO 99/12052	03/11/1999	PCT			
	WO 96/39611	12/12/1996	PCT			

Examiner	Date Considered
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### U.S. PATENT DOCUMENTS

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### FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub Class	Translation YES      NO

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		"Digital Image Processing Techniques Applied to the Radar Detection Problem", C.R. Guarino, Proceedings of Southeastcon. Williamsburg, Proceedings of the Southeast Conference, New York, IEEE, US, vol. 1, pp 702-706, April 7-10, 1991.
		"A Novel High-Gain Image Sensor Cell Based on Si p-n APD in Charge Storage Mode Operation", Komobuchi, et al., IEEE Transactions on Electron Devices, USA, vol. 37, no. 8, pp 1861-1868, August 1990.

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